

# Peter Lee

portfolio [www.peterlee.tech](http://www.peterlee.tech)

contact

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## Skills

### Languages

Java, Python, C/C++, Javascript, HTML, CSS, Latex

### Frameworks

Meteor, MEAN stack, jQuery, Sass, Materialize, OpenCV, TensorFlow

### Project Workflow

Gulp + Browsersync, NPM, Bower, Github, Heroku

### Operating Systems

Linux, Windows

### Design

Adobe Photoshop, Adobe Illustrator

## Education

### UC Berkeley

B.A. Computer Science and Applied Mathematics  
GPA: 3.93

Class of 2019

### Relevant Coursework

CS61A – Structure and Interpretation of Computer Programs (A+)  
CS61B – Data Structures and Algorithms (A+, Ranked 3<sup>rd</sup> out of 1360)  
CS61C – Great Ideas in Computer Architecture  
CS70 – Discrete Math and Probability Theory  
CS170 – Efficient Algorithms and Intractable Problems  
Industrial Engineering 192 – Technology and Entrepreneurship  
Math 54 – Linear Algebra and Differential Equations  
Math 53 – Multivariate Calculus

## Experience

### Launchpad, [www.callaunchpad.org](http://www.callaunchpad.org)

November 2016 – Present

#### Founder

- Created an organization that empowers students at UC Berkeley to solve real-world problems with artificial intelligence, machine learning, and data science

### Virtual Reality at Berkeley, [vr.berkeley.edu](http://vr.berkeley.edu)

September 2016 – Present

#### Researcher

- Developed an augmented reality toolkit that enables human-computer interaction in 3D space on augmented reality platforms
- Integrated depth sensors, RGB cameras, and transparent display glasses on a wearable device that collects physical data
- Implemented hand tracking and detection algorithms in OpenCV for depth sensors and RGB cameras

## Projects

### RecognitionCV, [github.com/petr-lee/RecognitionCV](https://github.com/petr-lee/RecognitionCV)

December 2016 – Current

#### OpenCV, C++

- Implemented a computer vision API that supports advanced hand tracking and face recognition through real-time video analysis
- Integrated object calibration and detection through median filtering, contour analysis, and point clustering

### Stella, [github.com/callaunchpad/Stella](https://github.com/callaunchpad/Stella)

December 2016 – Current

#### Javascript, jQuery

- Built an artificially intelligent chrome extension using speech recognition APIs to browse the web with voice commands

### Frontend Boilerplate, [www.peterlee.tech/FrontendBoilerplate](http://www.peterlee.tech/FrontendBoilerplate)

June 2016

#### Bootstrap, jQuery, Sass, Gulp + Browsersync

- Created a starter project for a highly customizable, modern frontend web project
- Compiled advanced frontend features including parallax, scroll animations, CSS preprocessing, and Sass mixin libraries

### Computer Science Mentors, [csmentors.berkeley.edu](http://csmentors.berkeley.edu)

August 2016

#### Materialize, Sass, jQuery

- Designed a modern website for Computer Science Mentors at UC Berkeley that is based on Google's material design principles
- Received over 2,000 views from undergraduate students and mentors at CSM

## Awards

### Hackerrank World Cup

September 2015

#### Semifinalist

- Qualified for the semifinals by solving competitive programming problems in C++ involving topics including data structures, graph theory, string processing, and computational geometry

### Hack Into It

November 2015

#### Overall 3<sup>rd</sup> Place

- 24-hour hackathon hosted by Intuit seeking innovative methods of querying, organizing, and displaying large databases
- Built educational web application on tax implications of lifestyle changes

## Activities

### Innovative Design

September 2016 – Present

#### Gold Tier Member

- Facilitated workshops on graphic and web design that offer education and experience to intermediate designers
- Provided graphic design and web development services to on-campus organizations

### Computer Science Mentors

August 2016 – Present

#### Mentor

- Taught a group of computer science students fundamental concepts of data structures, software development, and algorithms
- Created lesson plans and review sheets to improve general problem solving skills and prepare students for exams